CLAIMS

1. A method for developing an application, comprising:

providing an application framework including components that define a scope of the application, startup and shutdown behavior for the application, and how the application manages windows and resources;

providing a navigation framework including components that provide navigation functionality, journaling, journal extensibility, and structured navigation; and

providing application lifecycle management components that define how the application is deployed, installed, activated, updated, rolled back, and removed from a computing system.

- 2. The system recited in claim 1, wherein the component that defines the scope of the application and the startup and shutdown behavior of the application includes an application object.
- 3. The system recited in claim 1, wherein the application object further includes functionality that defines how the application manages the windows and resources.
- **4.** The system recited in claim 1, wherein the application framework further includes components that define the behavior of windows associated with the application.

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- 5. The system recited in claim 1, wherein the application framework further comprises a component that defines a mechanism that allows the application to access common window properties of a hosting environment in a like manner regardless of whether the hosting environment is a browser or a standalone window environment.
- 6. The system recited in claim 1, wherein the component that provides navigation functionality comprises a NavigationApplication object.
- 7. The system recited in claim 6, wherein the NavigationApplication object identifies an initial resource to which the application navigates when launched.
- 8. The system recited in claim 7, wherein the NavigationApplication object further includes navigation related events that are fired in response to the occurrence of a navigation.
- 9. The system recited in claim 7, wherein the NavigationApplication object further comprises a Properties collection in which is stored state information about the application.
- 10. The system recited in claim 1, wherein the component that provides journaling and journal extensibility comprises a Journal object.

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11. The system recited in claim 1, wherein the navigation framework further comprises a NavigationWindow component associated with the application and that persists across navigations.

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12. A computer-readable medium encoded with computer-executable components implementing an application, the components comprising:

an application class that defines a scope of the application, the application class including at least a shutdown method that closes the application;

a window class that defines a window object, the window class including a method for invoking a parent-modal dialog that blocks interaction with a parent of an instance of the window class but not other windows associated with the application; and

a pane class that defines an object for mediating between the application and a hosting environment, the hosting environment being either a browser or a standalone window.

- 13. The computer-readable medium recited in claim 12, further comprising an IWindowService interface that exposes properties for interacting with a window of the application in a manner consistent with a standalone window, and a BrowserWindowService class that exposes additional properties consistent with a browser window.
- 14. The computer-readable medium recited in claim 12, further comprising:
- a NavigationApplication class that includes a property that identifies an initial resource to which the application navigates when launched;
- an INavigator interface that exposes navigation-related properties, methods, and events associated with the application; and

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- a NavigationWindow class that defines an object that persists across navigations within the application.
- 15. The computer-readable medium of claim 14, further comprising a NavigationContainer class.

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- 16. A computer-readable medium encoded with computer-executable components implementing an application, the components comprising:
- a NavigationApplication class that includes a property that identifies an initial resource to which the application navigates when launched;
- an IiNavigator interface that exposes navigation-related properties, methods, and events associated with the application; and
- a NavigationWindow class that defines an object that persists across navigations within the application.
- 17. The computer-readable medium of claim 16, further comprising a NavigationContainer class.
- 18. The computer-readable medium of claim 16, wherein the NavigationApplication class includes a synchronous attribute that, if set, causes each element of a resource associated with the application to be displayed simultaneously.
 - 19. The computer-readable medium of claim 16, further comprising
- a Journal class that defines an object for storing a navigation history associated with the application; and
- a JournalEntry class that defines a particular entry within an instance of the Journal class.

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20. The computer-readable medium of claim 19, wherein the Journal class further defines a first method for adding an entry to the object, and a second method for removing another entry from the object.

- 21. The computer-readable medium of claim 19, wherein the JournalEntry class comprises a name property for storing text associated with a particular navigation, and a URI property for storing a locator of the particular navigation.
- 22. The computer-readable medium of claim 19, further comprising a PageFunction class that defines an object encapsulating a unit of functionality and that can be called as a resource from other resources associated with the application.
- 23. The computer-readable medium of claim 22, wherein the PageFunction class further includes a RemoveFromJournal property that indicates whether the PageFunction should be removed from a journal after the PageFunction functionality is complete.

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